

**City of Albemarle**  
**North Carolina**

P O Box 190  
Albemarle, NC 28002-0190



Finance Office  
Phone: 704-984-9444  
Fax: 704-984-9445

June 17, 2008

Ms. Amy Kadrie, Compliance Officer  
Solid Waste Section  
NCDENR-Division of Waste Management  
1646 Mail Service Center  
Raleigh, NC 27699-1646

Re: City of Albemarle, Permit # 8401  
Financial Assurance

Dear Ms. Kadrie:

I am the Chief Financial Officer of the City of Albemarle, North Carolina, P.O. Box 190, Albemarle, NC 28002-0190. This letter is in support of this Unit of Local Government's use of the Financial Test to demonstrate Finance Assurance, as specified in 15A NCAC 13B.1628 (e)(1)(f).

This Unit of Local Government is the Owner or Operator of the following Facilities for which Financial Assurance for Closure, Post-Closure, or Corrective Action is demonstrated through the Financial Test specified in 15A NCAC 13B.1628 (e)(1)(f). The current Closure, Post Closure, or Corrective Action Cost Estimates covered by the test are shown for the facility:

**Opened 05-20-99:**

Facility Name:	City of Albemarle, Landfill
Facility Address:	Stoney Gap Road
Permit Number:	8401
Closure Cost Estimate:	\$1,718,730
Post-Closure Estimate:	\$1,286,433
Corrective Action Cost Estimate:	—
Total Costs to be Covered:	\$3,005,163

**Closed 12-31-97:**

Facility Name:	City of Albemarle, Landfill
Facility Address:	Stoney Gap Road
Permit Number:	8401
Original Closure & Post Closure Cost:	\$ .00
Post-Closure :	\$ 596,133
Corrective Action Cost Estimate:	\$
Total	\$596,133

Ms. Amy Kadrie

June 17, 2008

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**Opened 1/01/1998**

**Construction & Debris Landfill (atop the closed landfill)**

Facility Name:	City of Albemarle, Landfill
Facility Address:	Stoney Gap Road
Permit Number:	8401
Closure Cost Estimate:	\$1,927,013
Post-Closure Estimate:	\$1,112,800
Corrective Action Cost Estimate:	\$ 500,000
Total Costs to be Covered:	\$3,539,813

The Fiscal Year of the Unit of Local Government ends on June 30, 2008. The figures for the following items marked with an asterisk are derived from this Unit of Local Government's Annual Financial Information Report (AFIR) for the latest completed Fiscal Year, ended June 30, 2007.

I hereby certify that the wording of this letter is identical to the wording specified in 15A NCAC 13B.1628(e)(2)(g) as such rules were constituted on the date shown immediately below. I further certify the following: (1) that the Unit of Local Government has not operated at a Total Operating Fund Deficit equal to five percent or more of Total Annual Revenue in either of the past two Fiscal Years, (2) that the Unit of Local Government is not in default on any Outstanding General Obligation Bonds or Long-Term Obligations, and (3) does not have any outstanding General Obligation Bonds rated lower than Baa issued by Moody's, BBB as issued by Fitch's, or 75 as issued by the Municipal Council.

Sincerely,



Colleen M. Conroy  
Director of Finance

**City of Albemarle**  
**Finance Department**  
**ATTACHMENT**  
 AFIR figures used from fiscal year ended June 30, 2007  
 June 17, 2008

1 Sum of Current Closure, Post-Closure and Correction Action Estimates	\$ 7,141,109
* 2 Sum of cash & investments (AFIR Part 7)	\$ 19,579,699
* 3 Total expenditures (AFIR Part 4 Columns a & b and Part 5 for municipalities or Part 5 excluding educational capital outlays for counties)	\$ 45,165,728
* 4 Annual debt service (AFIR Part 4 Section 1)	\$ 1,251,939
5 Assured Environmental Costs to demonstrate financial responsibility in the following under Division Rules:	
MSWLF under 15A NCAC 13B Section .1600	\$ 7,141,109
Hazardous Waste Treatment, Storage and Disposal Facilities under 15A NCAC 13A.0009 and .0010	\$ -
Petroleum Underground Storage Tanks Under 15A NCAC 2N .0100 - .0800	\$ -
Underground Injection Control System Facilities under 15A NCAC 2D .0400 and 15A NCAC 2C.0200	\$ -
PCB Commercial Storage Facilities under 15A NCAC 20 Section .0100 and 15A NCAC 2N Section .0100	\$ -
Total Assured Environmental Costs	\$ 7,141,109
* 6 Total Annual Revenue (AFIR Part 2)	\$ 51,268,453

**Circle Either "Yes" or "No" to the following Questions:**

7 Is Line 5 divided by Line 6 less than or equal to 0.43?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	0.139289
8 Is Line 2 divided by Line 3 greater than or equal to 0.05?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	0.433508
9 Is line 4 divided by Line 3 less than or equal to 0.20?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	0.027719

City of Albemarle  
Finance Department

ATTACHMENT

AFIR figures used from fiscal year ended June 30, 2007  
June 17, 2008

BOND RATING INDICATORS OF FINANCIAL STRENGTH

1 Sum of Current, Closure, Post-Closure and Correction Action Cost Estimates	\$ 4,714,098
2 Current bond rating of most recent issuance and name of rating Service	A Standards & Poor's
3 Date of issuance bond	2/24/1998
4 Date of maturity bond	8/1/2002
5 Assured Environmental Costs to demonstrate financial responsibility in the following amount under Division Rules:	
MSWLF under 15A NCAC 13B Section .1600	\$ 4,714,098
Hazardous Waste Treatment, Storage and Disposal Facilities under 15A NCAC 13A.0009 and .0010	—
Petroleum Underground Storage Tanks Under 15A NCAC 2N .0100 - .0800	—
Underground Injection Control System Facilities under 15A NCAC 2D .0400 and 15A NCAC 2C.0200	—
PCB Commercial Storage Facilities under 15A NCAC 20 Section .0100 and 15A NCAC 2N Section .0100	—
Total Assured Environmental Costs	\$ 4,714,098
* 6 Total Annual Revenue (AFIR Part 2)	\$ 51,268,453

Circle Either "Yes" or "No" to the following Questions:

Is Line 5 divided by Line 6 less than or equal to 0.437

☒ Yes ☐ No 0.091949

## **G07059 Albermarle C&D Landfill Closure and Post Closure Cost Estimates**

### **2.6 Closure Costs**

*The largest area to be closed within the permitted life will be 33.0 Ac. Post Closure will be 30 years after closure.*

#### **Closure Costs:**

Closure will consist of the following which costs are estimated as being done by a third party.

1. 18" of  $1 \times 10^{-5}$  cm/sec. soil cover;
2. Erosion Control Devices;
3. 18" Erosive layer;
4. Seeding and Mulching;
5. Mobilization/Demobilization;
6. Labor Costs; and
7. Stone for methane gas collection.
8. Geotextile for methane gas collection.
9. Vent pipes for methane gas collection.
10. Engineering Costs and QA/QC of the Composite liner and certification of closure.

#### **Estimate of Probable Costs:**

1. 18" of  $1 \times 10^{-5}$  cm/sec. soil cover for 33.0 acres:

Total yardage + 15% = 91,839  $\text{yd}^3$  @ a cost of \$9.00/ $\text{yd}^3$   
∴ Cost = \$826,551

2. Erosion Control devices

Estimated costs @ \$75,000  
∴ Cost = \$75,000

3. 18" Erosive soil layer for 15.0 acres.

Total yardage + 15% = 91,839  $\text{yd}^3$  @ a cost of \$4.00/ $\text{yd}^3$   
∴ Cost = \$367,356

4. Seeding and Mulching for 15.0 acres.

Estimated cost of \$2,000/acre  
∴ Cost = \$65,000

5. Mobilization/Demobilization.

Estimated cost of \$175,000

6. Labor Costs.

Estimated cost of \$200,000  
∴ Cost = \$200,000

7. Stone for methane gas collection.

Total estimated linear feet = 3,913 ft.

Total estimated volume for a 2'x1' trench = 7,826 ft<sup>3</sup>

with a density of 120 lbs/ft<sup>3</sup> total weight = 470 tons @ a cost of \$25.00/ton

∴ Cost = \$11,750

8. Geotextile for methane gas collection.

Total estimated linear feet = 3,913 ft.

Total estimated perimeter for a 2'x1' trench =

(3,913 ft x 6 ft) = 23,478 ft<sup>2</sup> @ a cost of \$0.20/ ft<sup>2</sup>

∴ Cost = \$4,696

9. Vent pipes for methane gas collection.

Estimated cost @ \$600.00 each (11 vents).

∴ Cost = \$6,600

10. Engineering Costs and QA/QC of the Composite liner and certification of closure.

Estimated cost = \$200,000

∴ Cost = \$200,000

Total of Estimated Closure Costs:

1.	\$ 826,551
2.	\$ 75,000
3.	\$ 387,356
4.	\$ 30,000
5.	\$ 175,000
6.	\$ 200,000
7.	\$ 11,750
8.	\$ 4,696
9.	\$ 6,600
10.	\$ 200,000

Total: \$ 1,927,013

### 3.2 Post Closure Costs

The largest closed area to be monitored within the post closure life will 33.0 acres.

Post Closure Costs:

Methane gas, ground water and surface water will be monitored for 30 years after closure. The cap will also have to be monitored for the 30 year period. All costs include reports, data analysis, and certifications.

1. Ground and Surface Water monitoring semiannually for 30 years for appendix I constituents and statistical analysis.

Estimated cost/sample = \$840.00/sample

Total annual samples = 2(14 wells + 3 surface) = 34 samples/year

Estimated cost = 30 years x 34 samples/year x \$840.00/sample =

∴ Cost = \$856,800

2. Methane Gas monitoring quarterly for 30 years.

Estimate \$600.00/quarter = \$2,400.00/year

Estimated cost = 30 year x \$2,400.00 = \$72,000.00

∴ Cost = \$72,000.00

3. Cap Monitoring and repairing any problems.  
Estimate \$100,000 for the 30 years.

∴ Cost = \$100,000

4. Closure of sedimentation and erosion control devices.  
Estimate \$24,000.00 for closure

∴ Cost = \$24,000

5. Maintenance of gas vents, monitoring wells, etc.  
Estimate \$60,000

**Total of Estimated Post Closure Costs:**

1. \$	858,800
2. \$	72,000
3. \$	100,000
4. \$	24,000
5. \$	<u>60,000</u>
Total:	\$1,112,800